

B/Pa 2877/\$

TRANSMITTAL LETTER		Attorney Docket Number: PA17-07V06				
Application Number: 09/980,341	Filing Date: 08/01/2001	Examiner: Sang H. Nguyen	Group Art Unit: 2877			
Applicant: Choi et al.						
Invention: METHODS FOR HIGH-PRECISION GAP ORIENTATION SENSING BETWEEN A TRANSPARENT TEMPLATE AND SUBSTRATE FOR IMPRINT LITHOGRAPHY						
TO THE COMMISSIONER FOR PATENTS:						
Transmitted herewith are the following documents in the above-identified application. The fee has been calculated as shown below.						
<input type="checkbox"/> Amendment (page(s)), <input checked="" type="checkbox"/> Information Disclosure Statement (5 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (3 page(s)), and <input checked="" type="checkbox"/> Copies of (3) cited references; <input checked="" type="checkbox"/> Information Disclosure Statement (9 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (7 page(s)), and <input checked="" type="checkbox"/> Copies of (19) cited references; <input checked="" type="checkbox"/> Return Receipt Postcard						
CLAIMS AS AMENDED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS		MINUS			\$18.00	\$ n/a
INDEP. CLAIMS		MINUS			\$86.00	\$n/a
Information Disclosure Fee					2@\$180.00	\$ 360.00
Petition for Extension of Time						\$
TOTAL FEE						\$ 360.00
<input type="checkbox"/> Applicant claims small entity status under 37 CFR 1.27 <input type="checkbox"/> A check in the amount of \$ is attached. <input checked="" type="checkbox"/> Charge \$360.00 to deposit account number 502650 and credit any overpayment or debit any underpayment to the same deposit account 502650. <input checked="" type="checkbox"/> No additional fee is required, but if any fees are incurred regarding this matter kindly charge deposit account number 502650.						
date <u>10/8/04</u>		 Kenneth C. Brooks Reg. No. 38393 Legal Department Molecular Imprints, Inc. P.O. Box 81536 Austin, Texas 78708-1536 Telephone: 512-339-7760, ext. 243 Facsimile: 512-491-8918				
CERTIFICATE OF TRANSMISSION/MAILING						
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<u>10-8-04</u>		 Katrina Prati				



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.
App. No.: 09/920,341 GPAU: 2877
Filing Date: 08/01/2001 Examiner: Sang H.Nguyen
Dkt. No.: PA17-07V06 Conf. No.: 4146
For: METHODS FOR HIGH-PRECISION GAP ORIENTATION SENSING BETWEEN
A TRANSPARENT TEMPLATE AND SUBSTRATE FOR IMPRINT
LITHOGRAPHY

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
- ☒ Other: Other: Invitation to Pay Additional Fees and Communication Relating to the Results of the Partial International Search dated August 10, 2004

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

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- ☐ within three months of the filing date of a national application or within three months of entry of the

10/15/2004 AWONDAF1 00000009 502650 09920341

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- 1 -

App. No. 09/920,341

national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

- ☐ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
- ☒ during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

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Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 10-8-04

Respectfully Submitted,



Kenneth C. Brooks,
Reg. No. 38,393
Legal Department
Molecular Imprints, Inc.
P.O. Box 81536
Austin, TX 78758-1535
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Sheet

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of

3

Complete if Known

Application Number

09/920.341

Filing Date

08/01/2001

First Named Inventor

Choi et al.

Group Art Unit

2877

Examiner Name

Nguyen, Sang H.

Attorney Docket Number

PA17-07V06

U.S. PATENT DOCUMENTS

[illegible]

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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<p>Substitute for form 1449A/PTO</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center; font-style: italic;">(use as many sheets as necessary)</p>		<p style="text-align: center; font-weight: bold;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>09/920,341</td> </tr> <tr> <td>Filing Date</td> <td>08/01/2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Choi et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2877</td> </tr> <tr> <td>Examiner Name</td> <td>Nguyen, Sang H.</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PA17-07V06</td> </tr> </table>		Application Number	09/920,341	Filing Date	08/01/2001	First Named Inventor	Choi et al.	Group Art Unit	2877	Examiner Name	Nguyen, Sang H.	Attorney Docket Number	PA17-07V06
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

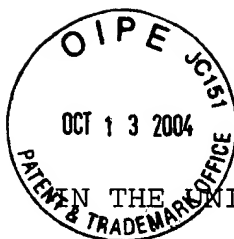
[illegible]

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☐ Other:

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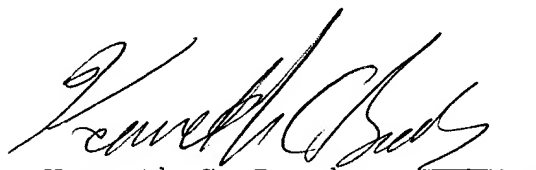
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U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
	E1	4,070,116		Frosch et al.	01-24-1978	
	E2	4,600,309		Fay	07-15-1986	
	E3	4,848,911		Uchida et al.	07-18-1989	
	E4	5,074,667		Miyatake	12-24-1991	
	E5	5,148,036		Matsugu et al.	09-15-1992	
	E6	5,148,037		Suda et al.	09-15-1992	
	E7	5,151,754		Ishibashi et al.	09-29-1992	
	E8	5,179,863		Uchida et al.	01-19-1993	
	E9	5,376,810		Hoenk et al.	12-27-1994	
	E10	5,424,549		Feldman	06-13-1995	
	E11	5,670,415		Rust	09-23-1997	
	E12	5,743,998		Park	04-28-1998	
	E13	5,855,686		Rust	01-05-1999	
	E14	5,948,219		Rohner	09-07-1999	
	E15	6,035,805		Rust	03-14-2000	
	E16	6,150,680		Eastman et al.	11-21-2000	
	E17	6,326,627	B1	Putvinski et al.	12-04-2001	
	E18	2002/0132482	A1	Chou	09-19-2002	
	E19	2002/0167117	A1	Chou	11-14-2002	
	E20	6,482,742	B1	Chou	11-19-2002	
	E21	6,534,418	B1	Plat et al.	03-18-2003	
	E22	6,541,360	B1	Plat et al.	04-01-2003	
	E23	2003/0081193	A1	White et al.	05-01-2003	
	E24	2003/0080471	A1	Chou	05-01-2003	
	E25	2004/0036201	A1	Chou et al.	02-26-2004	
	E26	5,468,542		Crouch	11-21-1995	
	E27	5,366,851		Novembre	11-22-1994	
	E28	5,362,606		Hartney et al.	11-08-1994	
	E29	5,324,683		Fitch et al.	06-28-1994	
	E30	5,212,147		Sheats	05-18-1993	
	E31	5,458,520		DeMercurio et al.	10-17-1995	
	E32	5,453,157		Jeng	09-26-1995	
	E33	5,439,766		Day et al.	08-08-1995	
	E34	5,431,777		Austin et al.	07-11-1995	
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		Number	Kind Code ² (if known)			
	E35	5,422,295		Choi et al.	06-06-1995	
	E36	5,421,981		Leader et al.	06-06-1995	
	E37	5,417,802		Obeng	05-23-1995	
	E38	5,380,474		Rye et al.	01-10-1995	
	E39	5,374,454		Bickford et al.	12-20-1994	
	E40	5,330,881		Sidman et al.	07-19-1994	
	E41	5,328,810		Lowrey et al.	07-12-1994	
	E42	5,318,870		Hartney	06-07-1994	
	E43	5,244,818		Jokerst et al.	09-14-1993	
	E44	5,242,711		DeNatale et al.	09-07-1993	
	E45	5,240,878		Fitzsimmons et al.	08-31-1993	
	E46	5,108,875		Thackeray et al.	04-28-1992	
	E47	5,053,318		Gulla et al.	10-01-1991	
	E48	4,964,945		Calhoun	10-23-1990	
	E49	4,908,298		Hefferon et al.	03-13-1990	
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	E51	4,919,748		Bredbenner et al.	04-24-1990	
	E52	3,783,520		King	01-08-1974	
	E53	6,776,094	B1	Whitesides et al.	08-17-2004	
	E54	4,201,800		Alcorn et al.	05-06-1980	
	E55	4,426,247		Tamamura et al.	01-17-1984	
	E56	4,507,331		Hiraoka	03-26-1985	
	E57	4,552,833		Ito et al.	11-12-1985	
	E58	4,657,845		Frechet et al.	04-14-1987	
	E59	4,692,205		Sachdev et al.	09-08-1987	
	E60	4,707,218		Giammarco et al.	11-17-1987	
	E61	4,737,425		Lin et al.	04-12-1988	
	E62	4,808,511		Holmes	02-28-1989	
	E63	4,826,943		Ito et al.	05-02-1989	
	E64	4,857,477		Kanamori	08-15-1989	
	E65	4,891,303		Garza et al.	01-02-1990	
	E66	4,931,351		McColgin et al.	06-05-1990	
	E67	4,976,818		Hashimoto et al.	12-11-1990	
	E68	4,980,316		Huebner	12-25-1990	
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	E69	4,999,280		Hiraoka	03-12-1991	
	E70	5,071,694		Uekita et al.	12-10-1991	
	E71	5,169,494		Hashimoto et al.	12-08-1992	
	E72	5,173,393		Sezi et al.	12-22-1992	
	E73	5,198,326		Hashimoto et al.	03-30-1993	
	E74	5,234,793		Sebald et al.	08-10-1993	
	E75	5,314,772		Kozicki et al.	05-24-1994	
	E76	5,527,662		Hashimoto et al.	06-18-1996	
	E77	5,654,238		Cronin et al.	08-05-1997	
	E78	5,700,626		Lee et al.	12-23-1997	
	E79	5,736,424		Prybyla et al.	04-07-1998	
	E80	5,895,263		Carter et al.	04-20-1999	
	E81	5,907,782		Wu	05-25-1999	
	E82	5,926,690		Toprac et al.	07-20-1999	
	E83	5,948,570		Kornblit et al.	09-07-1999	
	E84	6,033,977		Gutsche et al.	03-07-2000	
	E85	6,096,655		Lee et al.	08-01-2000	
	E86	6,150,231		Muller et al.	11-21-2000	
	E87	6,245,581	B1	Bonser et al.	06-12-2001	
	E88	6,274,294	B1	Hines	08-14-2001	
	E89	6,329,256	B1	Ibok	12-11-2001	
	E90	6,383,928	B1	Eissa	05-07-2002	
	E91	6,387,783	B1	Furukawa et al.	05-14-2002	
	E92	6,388,253	B1	Su	05-14-2002	
	E93	6,391,798	B1	DeFelice et al.	05-21-2002	
	E94	6,455,411	B1	Jiang et al.	09-24-2002	
	E95	6,489,068	B1	Kye	12-03-2002	
	E96	6,514,672	B2	Young et al.	02-04-2003	
	E97	6,561,706	B2	Singh et al.	05-13-2003	
	E98	6,565,928	B2	Sakamoto et al.	05-20-2003	
	E99	2003/011368	A1	Mancini et al.	06-19-2003	
	E100	2003/0129542	A1	Shih et al.	07-10-2003	
	E101	6,632,742	B2	Yang et al.	10-14-2003	
	E102	6,635,581	B2	Wong	10-21-2003	
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Application Number	09/920,341
Filing Date	08/01/2001
First Named Inventor	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.
Attorney Docket Number	PA17-07V06

[illegible]

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Examiner Name	Nguyen, Sang H.
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				Filing Date	08/01/2001
				First Named Inventor	Choi et al.
				Group Art Unit	2877
				Examiner Name	Nguyen, Sang H.
				Attorney Docket Number	PA17-07V06
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	E114	Abstract of Japanese Patent 63-138730	
	E115	Abstract of Japanese Patent 55-88332	
	E116	Abstract of Japanese Patent 57-7931	
	E117	Abstract of Japanese Patent 02-92603.	
	E118	Translation of Japanese Patent 02-92603.	
	E119	Abstract of Japanese Patent 02-24848.	
	E120	Translation of Japanese Patent 02-24848.	
	E121	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	E122	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	E123	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	E124	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

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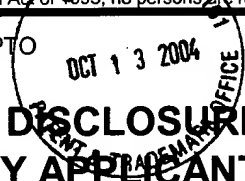
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Sheet	7	of	7	Attorney Docket Number	PA17-07V06

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	E125	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9;"Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	E126	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online]Retreived 9/23/04 from URL:http://www.zyvex.com/nanotech/feynman.html.	
	E127	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online]Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.	

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